



**RE: Sulzer Stormwater Installation**

**TARNOW Karen E** to: Kristine Koch, Carl Stivers

12/10/2007 08:57 AM

"Andy Koulermos", "Amanda Shellenberger", "Amanda Spencer",  
Cc: "Christine Hawley", "Sanders, Dawn", "Gene Revelas", "Jim  
McKenna", "Jessica Pisano", "Scheffler, Linda", "Laura Jones",

Same here; no objections.

-----Original Message-----

From: Koch.Kristine@epamail.epa.gov  
[mailto:Koch.Kristine@epamail.epa.gov]  
Sent: Friday, December 07, 2007 1:08 PM  
To: Carl Stivers  
Cc: Andy Koulermos; Amanda Shellenberger; Amanda  
Spencer; Christine  
Hawley; Sanders, Dawn; Gene Revelas; Jim McKenna;  
Jessica Pisano;  
Scheffler, Linda; Laura Jones; MCCLINCY Matt;  
mcoover@ensr.aecom.com;  
LaFranchise, Nicole; Rick Applegate; Bob Wyatt;  
TARNOW Karen E; Valerie  
Oster  
Subject: Re: Sulzer Stormwater Installation

I have no objections to the sampling approach.

Kristine Koch  
Remedial Project Manager  
USEPA, Office of Environmental Cleanup

U. S. Environmental Protection Agency  
Region 10  
1200 Sixth Avenue, Suite 900, M/S ECL-115  
Seattle, Washington 98101-3140

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1-800-424-4372 extension 6705 (M-F, 8-4 Pacific Time,  
only)

"Carl Stivers"  
<cstivers@anchor  
env.com>

To

Shellenberger"  
12/06/2007 05:00  
<ashellenberger@anchorenv.com>,  
PM  
Koch/R10/USEPA/US@EPA,  
Koulermos"

"Amanda

Kristine

"Andy

<akoulermos@newfields.com> ,

"Amanda

Spencer"  
<aspencer@ashcreekassociates.com>  
Dawn"  
<DAWNS@BES.CI.PORTLAND.OR.US>,  
Linda"  
<LindaSC@BES.CI.PORTLAND.OR.US>,  
<ljones@integral-corp.com>,  
<mcoover@ensr.aecom.com>,  
Nicole"  
<Nicole.LaFranchise@portofportlan  
Karen E"  
<TARNOW.Karen@deq.state.or.us>  
cc  
<rjw@nwnatural.com>,  
Applegate"  
<RICKA@bes.ci.portland.or.us>,  
<MCCLINCY.Matt@deq.state.or.us>,  
Pisano"  
<jpisano@anchorenv.com>,"Gene  
<grevelas@integral-corp.com>,  
Hawley"  
<chawley@integral-corp.com>,"Jim  
<Jim.McKenna@portofportland.com>,  
<voster@anchorenv.com>  
Subject  
Stormwater Installation

, "Sanders,  
"Scheffler,  
"Laura Jones"  
"LaFranchise,  
d.com>,"TARNOW  
"Bob Wyatt"  
"Rick  
"MCCLINCY Matt"  
"Jessica  
Revelas"  
"Christine  
McKenna"  
"Valerie Oster"  
Sulzer

Stormwater Technical Team -

Just a reminder that we cannot proceed with the installation of the stormwater sampling equipment at Sulzer until we get some feedback from the team that the approach described below by Amanda is acceptable. Our next meeting is on the 19th (although I still need a confirmation from Kristine on that), so I definitely don't want to wait until then to discuss this. So, unfortunately we will have to try to resolve this one via email if at all possible. Please respond, even if it is only to say you have no objections to the approach described below. That way, I can take a vote of sorts.

Thanks much for your prompt response.

Carl

Carl Stivers  
Anchor Environmental, L.L.C.  
23 South Wenatchee Avenue, Suite 120  
Wenatchee, WA 98801  
Phone: 509-888-2070  
Fax: 509-888-2211  
cstivers@anchorenv.com

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From: Amanda Shellenberger  
Sent: Tuesday, December 04, 2007 10:38 AM  
To: Carl Stivers; 'Koch.Kristine@epamail.epa.gov';  
'Andy Koulermos';

'Amanda Spencer'; 'Sanders, Dawn'; 'Scheffler, Linda'; 'Laura Jones';  
'mcoover@ensr.aecom.com'; 'LaFranchise, Nicole';  
'TARNOW Karen E'  
Cc: Bob Wyatt; Rick Applegate; 'MCCLINCY Matt';  
Jessica Pisano; 'Gene  
Revelas'; 'Christine Hawley'; Jim McKenna; Valerie  
Oster  
Subject: RE: Notes from Stormwater Technical Team  
Meeting Nov. 27th at  
12:30

Tech Team -

As requested in the last technical team conference call, here is more information on how we propose to collect composite water samples upstream of the WR-4 outfall.

We propose to install a flow meter and sample pickup tube into the main outfall pipe draining to WR-4. This pipe can be accessed through the 3.5 inch pipe protruding from the bottom of CB-17. By attaching the flow meter and sample pickup tube to a stainless steel rod, we will be able to mount them on the bottom of the outfall pipe. We anticipate using a spring-loaded mounting setup to insert the meter and pickup tube vertically through the small pipe into the outfall pipe, and then turning the meter and tube perpendicularly so that the meter and pickup tube will be on the bottom of the outfall pipe. We'll take pictures of the setup.

The flow meter will allow us to measure stormwater runoff and cooling water discharge. By measuring cooling water discharge during dry weather, we can determine the approximate flow volume relative to the stormwater runoff volume. It should be noted that these volumes will not be exact since the flow meter will not be calibrated. However, the flow meter will do a good job of showing what proportion of discharge from the outfall is cooling water versus stormwater.

We hope to install this sampling setup at Sulzer early next week if there are no objections. Let me know if you will have any questions.

Amanda Shellenberger, P.E.

Anchor Environmental, L.L.C  
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From: Carl Stivers  
Sent: Friday, November 30, 2007 3:27 PM  
To: Koch.Kristine@epamail.epa.gov; Andy Koulermos; Amanda Shellenberger; Amanda Spencer; Sanders, Dawn; Scheffler, Linda; Laura Jones; mcoover@ensr.aecom.com; LaFranchise, Nicole; TARNOW Karen E  
Cc: Bob Wyatt; Rick Applegate; MCCLINCY Matt; Jessica Pisano; Gene Revelas; Christine Hawley; Jim McKenna; Valerie Oster  
Subject: Notes from Stormwater Technical Team Meeting  
Nov. 27th at 12:30

Stormwater Technical Team -

As discussed at the last meeting, here is a high level summary of action items and highlights:

We agreed the next meeting should be Dec. 19 from 11 to 1 pm.

This would be in person, in Portland, since we will want to

project the data on the wall. I will set up a WebEx meeting for

those who may need to call in. I will confirm the location soon.

Kristine - If this time does not work for you, we also set up an

alternate time for Dec. 20 (same time of day). Let me know which

one works best for you.

Sulzer - The group agreed that we would proceed with stormwater

sampling but NOT sediment traps at Sulzer, due to deployment

logistics. Anchor will work on a more detailed description of how the stormwater will be collected and flow will be monitored.

New Hwy 30 Sample - It was agreed that the sample taken on Oct. 16

th at the new Hwy 30 site could be used as a sample, even though

sample representing about 4% of the flow from the middle of the storm was not collected.

Load Calculation Methods - Methods for handling replicates and

non-detects were discussed and Integral/Anchor will prepare data

following these methods for use at the next call. The next call

will work on the next steps in the loading calculation based on

these data. It was agreed that this data analysis would

concentrate on 4 PCB congeners, As, Pb, 2 PAHs, and TSS for the

purposes of deriving methods.

The Port is going to prepare on a Field Sampling Report similar to

the one being prepared by the LWG for the spring sampling at the non-Port stations.

Anchor to look for a statistician to attend the next meeting.

Carl was going to look into the groups pace relative to the

overall project schedule to make sure we are moving fast enough.

Let me know if I missed anything critical.

Thanks.

Carl

Carl Stivers

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cstivers@anchorenv.com.

From: Carl Stivers  
Sent: Monday, November 19, 2007 1:12 PM  
To: 'Koch.Kristine@epamail.epa.gov'; 'Andy  
Koulermos'; Amanda  
Shellenberger; 'Amanda Spencer'; 'Sanders, Dawn';  
'Scheffler, Linda';  
'Laura Jones'; 'mcoover@ensr.aecom.com';  
'LaFranchise, Nicole'; 'TARNOW  
Karen E'  
Cc: Bob Wyatt; Rick Applegate; 'MCCLINCY Matt';  
Jessica Pisano; 'Gene  
Revelas'; 'Christine Hawley'; Jim McKenna; Valerie  
Oster  
Subject: Stormwater Technical Team Meeting Nov. 27th  
at 12:30 to 4 pm

Stormwater Technical Team -

At our last meeting, we decided to have our next in  
person meeting on  
Nov. 27th from 12:30 to 4 pm. I have secured Room  
1904 at the offices  
of Schwabe, Williamson, Wyatt, which is at 1211 SW  
Fifth Avenue. We  
will continue our discussions of stormwater loading  
calculation methods.

In case someone cannot make it, the following call in  
number is also  
available:

Non Responsive

Thanks.

Carl

Carl Stivers  
Anchor Environmental, L.L.C.  
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